

METHOD AND SYSTEM FOR HITLESS WIRELESS ROAMING IN A MOBILE
ENVIRONMENT

ABSTRACT OF THE INVENTION

5 A method and system for hitless wireless roaming in a
mobile environment. The present invention describes a system
for wireless connectivity in fast moving trains. The system
comprises a router for routing Internet Protocol (IP)
communication signals to and from a wireless network. The
10 router is located on an object. A first antenna is also
located on the object and is communicatively coupled to the
router for transmitting the communication signals to and from
a plurality of access points on the wireless network. A
second antenna is also communicatively coupled to the router
15 for transmitting the communication signals to and from the
plurality of access points. The second antenna is positioned
a distance from the first antenna on the object that allows
the router continuous access to the wireless network as the
first antenna and the second antenna roam through the
20 wireless network while the object is moving.